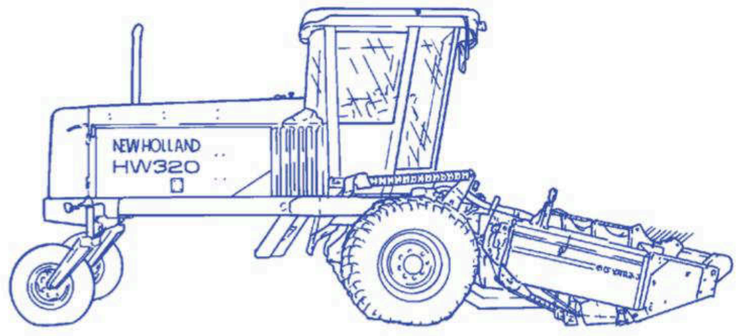
NEW HOLLAND

HW300

HW320

OPERATOR'S MANUAL



87059844 4/05

NEW HOLLAND

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CONTENTS

SAFETY 0-7

GENERAL INFORMATION 1-1

OPERATION 2-1

LUBRICATION 3-1

MAINTENANCE 4-1

TROUBLESHOOTING 5-1

OPTIONAL EQUIPMENT 6-1

SPECIFICATIONS 7-1

INDEX 7-5

DELIVERY REPORT 7-7

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ENGINE OPERATION

Before starting the engine, become familiar with the location and purpose of the controls and instruments. Refer to the Cab and Controls Sections of this manual.

STARTING THE ENGINE

Prestarting Checks

Performing the following checks before starting the engine will help to insure trouble-free operation.

1. Be sure the engine oil is at or close to the full mark on the dipstick. Park the machine on a level area to check the oil.
2. Check the fuel supply. Keeping the fuel tank filled will keep condensation to a minimum.
3. Check the radiator coolant level.
4. Check the air cleaner.
5. Check the fuel water separator.
6. Look for obvious trouble signs such as oil or coolant leaks.
7. Be sure the windrower is in a well-ventilated area. Make provisions to vent the exhaust to the outside, if starting the windrower inside a building.

⚠ DANGER ⚠

Never idle the engine in a closed area. Exhaust gases may build up. These gases are harmful and potentially lethal. Carbon monoxide is colorless and odorless, but can be present with all other exhaust fumes.

Engine Starting Procedure

1. Be sure the parking brake is engaged.
2. Be sure the header drive switch is turned off.
3. Be sure the FNR lever is in neutral.
4. Be sure the steering wheel is centered and the neutral lock has engaged.
5. Move the throttle lever to the slow idle position. In cold weather, move the throttle lever to about 1/4 throttle position.

⚠ CAUTION ⚠

Be sure everyone is clear of the windrower before starting the engine.

6. Turn the key switch to the on position. Wait a few seconds for the WES to go through the self check.

   NOTE: *If the engine has not been operated for an extended period, disconnect the fuel solenoid and crank the engine for thirty seconds. Let the starter cool for two minutes and crank the engine again. This will circulate engine oil through the engine to prevent excessive wear at start-up. Connect the solenoid and start the engine.*
7. Turn the key switch to crank the engine. Release the switch when the engine starts.

   IMPORTANT: *If the switch is released before the engine starts, wait until the starter motor stops turning before engaging the starter again.*

   Never crank the engine for more than thirty seconds at one time. Allow two minutes for the starter motor to cool before attempting to start the engine again.
8. When the engine starts, move the throttle lever to the low idle speed. Allow the engine to idle for three to five minutes or until the coolant temperature starts to rise.

   IMPORTANT: *In cold weather, allow the hydraulic oil to warm before operating the unit. Failure to properly warm the oil during cold weather will cause damage to the systems. Also this insures adequate lubrication to the turbo-charger.*
9. Operate the engine at low RPM until the engine coolant is 66° C (150° F) or higher.

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EVERY 10 HOURS OF OPERATION OR DAILY

Lubrication Point

Grease the header lower lift arm pivot (2 fittings)
Grease the header lift bell cranks (4 fittings)
Grease the header lift links (2 fittings)
Grease the steering universal joint shaft (2 fittings)
Grease the hydrostatic pump propulsion linkage (2 fittings)
Grease the rear axle pivot (1 fitting)
Grease the caster wheel forks (2 fittings)
Check engine crankcase oil level

AFTER THE FIRST 50 HOURS OF OPERATION

Lubrication Point

Change the engine crankcase oil and filter
Change the oil in the flywheel gearbox
Change hydraulic oil filters
Change the oil in the planetary final drives
Check oil in the brake housing

EVERY 50 HOURS OF OPERATION OR WEEKLY

Lubrication Point

Oil all hinges and latches
Check the oil in the flywheel gearbox
Check the oil in the planetary final drives

EVERY 300 HOURS OF OPERATION

Lubrication Point

Change the engine crankcase oil and filter

EVERY 1200 HOURS OR YEARLY

Lubrication Point

Change the oil in the flywheel gearbox
Change the oil in the planetary final drives
Change the hydraulic oil filters
(sooner if there is a leak or if there are repairs made)
Check oil in the brake housing

LUBRICATION AND SERVICE POINTS

Lubrication points and service points are shown on the following pages along with the interval of service to be done. Under adverse conditions, shorten the lubrication intervals.

⚠ CAUTION ⚠

Some items shown with shields removed for clarity. Never operate the windrower with shields removed.

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	Model HW300	Model HW320
Tractor weight	4128 kg (9100 lbs.)	4295 kg (9470 lbs.)
Engine lube system capacity	16.1 L (17 qts.) with filter	16.1 L (17 qts.) with filter
Final drive capacity	0.89 L (0.94 qts.)	0.89 L (0.94 qts.)
Flywheel gearbox capacity	2.36 L (2.5 qts.)	2.36 L (2.5 qts.)

Field-Installed Options

- AM-FM radio available through Parts
- Cab heater kit
- Cigarette lighter
- Flotation trim kit, single or dual adjust
- Floodlight
- Hydraulic header tilt
- Thermostart kit
- Windshield wiper kit
- Instructional seat

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